

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 101823,253A

Source: FWJ6

Date Processed by STIC: 3/6/07

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/823,253A

DATE: 03/06/2007

TIME: 16:39:44

Input Set : E:\SEQLIST 10271-112-999 (subs).TXT  
 Output Set: N:\CRF4\03062007\J823253A.raw

4 <110> APPLICANT: Reed, Jennifer Lynne  
 6 <120> TITLE OF INVENTION: RECOMBINANT IL-9 ANTIBODIES AND USES  
 7 THEREOF  
 9 <130> FILE REFERENCE: 10271-112-999  
 11 <140> CURRENT APPLICATION NUMBER: 10/823,253A  
 12 <141> CURRENT FILING DATE: 2004-04-12  
 14 <150> PRIOR APPLICATION NUMBER: 60/477,797  
 15 <151> PRIOR FILING DATE: 2003-06-10  
 17 <150> PRIOR APPLICATION NUMBER: 60/462,259  
 18 <151> PRIOR FILING DATE: 2003-04-11  
 20 <160> NUMBER OF SEQ ID NOS: 65  
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 10  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Artificial sequence  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: VH CDR1  
 32 <400> SEQUENCE: 1  
 33 Gly Tyr Thr Phe Thr Gly Tyr Trp Ile Glu  
 34 1 5 10  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 17  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Artificial Sequence  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: VH CDR2  
 45 <400> SEQUENCE: 2  
 46 Glu Ile Leu Pro Gly Ser Gly Thr Thr Asn Pro Asn Glu Lys Phe Lys  
 47 1 5 10 15  
 48 Gly  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 13  
 54 <212> TYPE: PRT  
 55 <213> ORGANISM: Artificial Sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: VH CDR3  
 60 <400> SEQUENCE: 3  
 61 Ala Asp Tyr Tyr Gly Ser Asp Tyr Val Lys Phe Asp Tyr  
 62 1 5 10  
 65 <210> SEQ ID NO: 4  
 66 <211> LENGTH: 11  
 67 <212> TYPE: PRT

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68 <213> ORGANISM: Artificial Sequence  
70 <220> FEATURE:  
71 <223> OTHER INFORMATION: VL CDR1  
73 <400> SEQUENCE: 4  
74 Lys Ala Ser Gln His Val Gly Thr His Val Thr  
75 1 5 10  
78 <210> SEQ ID NO: 5  
79 <211> LENGTH: 7  
80 <212> TYPE: PRT  
81 <213> ORGANISM: Artificial Sequence  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: VL CDR2  
86 <400> SEQUENCE: 5  
87 Ser Thr Ser Tyr Arg Tyr Ser  
88 1 5  
91 <210> SEQ ID NO: 6  
92 <211> LENGTH: 9  
93 <212> TYPE: PRT  
94 <213> ORGANISM: Artificial Sequence  
96 <220> FEATURE:  
97 <223> OTHER INFORMATION: VL CDR3  
99 <400> SEQUENCE: 6  
100 Gln His Phe Tyr Ser Tyr Pro Leu Thr  
101 1 5  
104 <210> SEQ ID NO: 7  
105 <211> LENGTH: 122  
106 <212> TYPE: PRT  
107 <213> ORGANISM: Artificial Sequence  
109 <220> FEATURE:  
110 <223> OTHER INFORMATION: VH domain of antibody 4D4  
112 <400> SEQUENCE: 7  
113 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
114 1 5 10 15  
115 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr  
116 20 25 30  
117 Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
118 35 40 45  
119 Gly Glu Ile Leu Pro Gly Ser Gly Thr Thr Asn Tyr Asn Glu Lys Phe  
120 50 55 60  
121 Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  
122 65 70 75 80  
123 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
124 85 90 95  
125 Ala Arg Ala Asp Tyr Tyr Gly Ser Asp Tyr Val Lys Phe Asp Tyr Trp  
126 100 105 110  
127 Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
128 115 120  
131 <210> SEQ ID NO: 8  
132 <211> LENGTH: 107

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133 <212> TYPE: PRT  
 134 <213> ORGANISM: Artificial Sequence  
 136 <220> FEATURE:  
 137 <223> OTHER INFORMATION: VL domain of antibody 4D4 and 4D4 H2-1 D11  
 139 <400> SEQUENCE: 8  
 140 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 141 1 5 10 15  
 142 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln His Val Gly Thr His  
 143 20 25 30  
 144 Val Thr Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
 145 35 40 45  
 146 Tyr Ser Thr Ser Tyr Arg Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly  
 147 50 55 60  
 148 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 149 65 70 75 80  
 150 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Tyr Ser Tyr Pro Leu  
 151 85 90 95  
 152 Thr Phe Gly Gly Thr Lys Val Glu Ile Lys  
 153 100 105  
 156 <210> SEQ ID NO: 9  
 157 <211> LENGTH: 122  
 158 <212> TYPE: PRT  
 159 <213> ORGANISM: Artificial Sequence  
 161 <220> FEATURE:  
 162 <223> OTHER INFORMATION: VH domain of antibody 4D4 H2-1 D11  
 164 <400> SEQUENCE: 9  
 165 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 166 1 5 10 15  
 167 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr  
 168 20 25 30  
 169 Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 170 35 40 45  
 171 Gly Glu Trp Leu Pro Gly Ser Gly Thr Thr Asn Tyr Asn Glu Lys Phe  
 172 50 55 60  
 173 Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  
 174 65 70 75 80  
 175 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 176 85 90 95  
 177 Ala Arg Ala Asp Tyr Tyr Gly Ser Asp Tyr Val Lys Phe Asp Tyr Trp  
 178 100 105 110  
 179 Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 180 115 120  
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 185 <212> TYPE: PRT  
 186 <213> ORGANISM: Artificial Sequence  
 188 <220> FEATURE:  
 189 <223> OTHER INFORMATION: VH CDR2  
 191 <400> SEQUENCE: 10

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Input Set : E:\SEQLIST 10271-112-999 (subs).TXT  
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192 Glu Trp Leu Pro Gly Ser Gly Thr Thr Asn Tyr Asn Glu Lys Phe Lys  
193 1 5 10 15  
194 Gly  
198 <210> SEQ ID NO: 11  
199 <211> LENGTH: 10  
200 <212> TYPE: PRT  
201 <213> ORGANISM: Artificial Sequence  
203 <220> FEATURE:  
204 <223> OTHER INFORMATION: VH CDR1  
206 <400> SEQUENCE: 11  
207 Gly Tyr Thr Phe Thr Tyr Tyr Trp Ile Glu  
208 1 5 10  
211 <210> SEQ ID NO: 12  
212 <211> LENGTH: 13  
213 <212> TYPE: PRT  
214 <213> ORGANISM: Artificial Sequence  
216 <220> FEATURE:  
217 <223> OTHER INFORMATION: VH CDR3  
219 <400> SEQUENCE: 12  
220 Ala Asp Tyr Tyr Gly Ser Asp His Val Lys Phe Asp Tyr  
221 1 5 10  
224 <210> SEQ ID NO: 13  
225 <211> LENGTH: 11  
226 <212> TYPE: PRT  
227 <213> ORGANISM: Artificial Sequence  
229 <220> FEATURE:  
230 <223> OTHER INFORMATION: VL CDR1  
232 <400> SEQUENCE: 13  
233 Leu Ala Ser Gln His Val Gly Thr His Val Thr  
234 1 5 10  
237 <210> SEQ ID NO: 14  
238 <211> LENGTH: 7  
239 <212> TYPE: PRT  
240 <213> ORGANISM: Artificial Sequence  
242 <220> FEATURE:  
243 <223> OTHER INFORMATION: VL CDR2  
245 <400> SEQUENCE: 14  
246 Gly Thr Ser Tyr Arg Tyr Ser  
247 1 5  
250 <210> SEQ ID NO: 15  
251 <211> LENGTH: 122  
252 <212> TYPE: PRT  
253 <213> ORGANISM: Artificial Sequence  
255 <220> FEATURE:  
256 <223> OTHER INFORMATION: VH domain of antibody 4D4com-XF-9  
258 <400> SEQUENCE: 15  
259 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
260 1 5 10 15  
261 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Tyr Tyr

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262 20 25 30  
 263 Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 264 35 40 45  
 265 Gly Glu Trp Leu Pro Gly Ser Gly Thr Thr Asn Tyr Asn Glu Lys Phe  
 266 50 55 60  
 267 Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  
 268 65 70 75 80  
 269 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 270 85 90 95  
 271 Ala Arg Ala Asp Tyr Tyr Gly Ser Asp His Val Lys Phe Asp Tyr Trp  
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 273 Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 274 115 120  
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 278 <211> LENGTH: 107  
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 282 <220> FEATURE:  
 283 <223> OTHER INFORMATION: VL domain of antibody 4D4com-XF-9  
 285 <400> SEQUENCE: 16  
 286 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 287 1 5 10 15  
 288 Asp Arg Val Thr Ile Thr Cys Leu Ala Ser Gln His Val Gly Thr His  
 289 20 25 30  
 290 Val Thr Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
 291 35 40 45  
 292 Tyr Gly Thr Ser Tyr Arg Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly  
 293 50 55 60  
 294 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 295 65 70 75 80  
 296 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Phe Tyr Asp Tyr Pro Leu  
 297 85 90 95  
 298 Thr Phe Gly Gly Thr Lys Val Glu Ile Lys  
 299 100 105  
 302 <210> SEQ ID NO: 17  
 303 <211> LENGTH: 122  
 304 <212> TYPE: PRT  
 305 <213> ORGANISM: Artificial Sequence  
 307 <220> FEATURE:  
 308 <223> OTHER INFORMATION: VH domain of antibody 4D4com-2F9  
 310 <400> SEQUENCE: 17  
 311 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 312 1 5 10 15  
 313 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr  
 314 20 25 30  
 315 Trp Ile Glu Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 316 35 40 45  
 317 Gly Glu Trp Leu Pro Gly Ser Gly Thr Thr Asn Tyr Asn Glu Lys Phe  
 318 50 55 60

**VERIFICATION SUMMARY**

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Input Set : E:\SEQLIST 10271-112-999 (subs).TXT  
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